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(21)Application number : **53-157016** (71)Applicant : **SEIKO INSTR & ELECTRONICS LTD**

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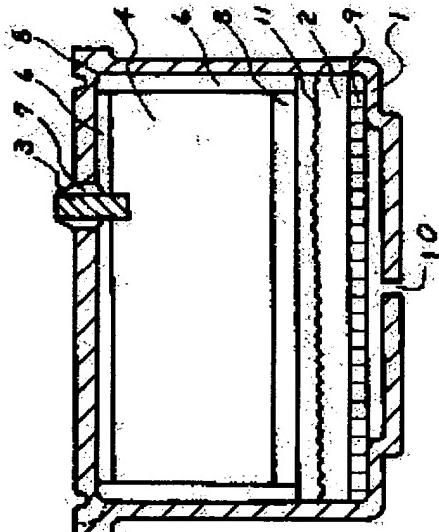
(54) AIR-LITHIUM BATTERY

(57)Abstract:

PURPOSE: To obtain an air battery with high output and high energy density by arranging a lithium negative electrode on one side of a solid electrolyte consisting of lithium nitride and a positive electrode consisting of aqueous alkali solution and active carbon on the other side.

CONSTITUTION: The positive electrode can 1 consisting of SUS304 and such has the air vent 10 and the section 8 is laser-welded. For example, inside this positive electrode can 1 there is arranged the positive electrode 2 which consists of the active carbon with its average particle diameter of $0.1\text{--}1\mu$, 5% 20%KOH water solution, Teflon powder, and the metal net 11. At the upper part of this positive electrode 2 there are arranged the solid electrolyte 5 consisting of Li₃N and the negative electrode Li₄. These sides are covered by the insulating material 6 consisting of ceramics or synthetic resin. The Teflon film is

contained between the positive electrode 2 and the air vent 10 and is jointly used as a gas transparent and liquid leak resistant micro-porous film. The section between the negative electrode terminal 3 and the positive electrode can 1 is air-tightly melt-sticked by inorganic glass 7 such as borosilicate glass and such.



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